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1 [Integrated resource allocation in heterogeneous SAN data centers](#)

Anandh, Sridhar; Madhukar, Karupiah; Bhuvan, Bamba

August 2007 **PODC '07: Proceedings of the twenty-sixth annual ACM symposium on Principles of distributed computing****Publisher:** ACM [Request Permissions](#)Full text available [PDF](#) (209 KB)**Bibliometrics** Downloads (6 Weeks): 1, Downloads (12 Months): 23, Downloads (Overall): 254, Citation Count: 2

Modern data centers are complex distributed environments with application workloads requiring multiple resources like processing (CPU), storage and network. Allocation of these resources to workloads needs to be handled in an integrated manner to adequately ...

Keywords SAN resource management, integrated allocation2 [Dynamic Optical Circuit Switching Applied to Storage Area Networks](#)

Abaron, J.; Agrawal, N.; Cam, S.; Sapiro, L.; Rudyk, D.

November 2009 **OSC '09: Proceedings of the 2nd International Workshop on Optical SuperComputing****Publisher:** Springer-Verlag**Bibliometrics** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

This paper presents a new weight incidence representation of Dynamic wavelength addressing in optical fiber networks utilizing wavelength division multiplexing (WDM) can form the basis for a high-performance, high-bandwidth, low-latency any-to-any interconnection ...

3 [Optimizing NFS Performance: Tuning and Troubleshooting NFS on HP-UX Systems](#)

Dave, Oskar

September 2002 **Optimizing NFS Performance: Tuning and Troubleshooting NFS on HP-UX Systems****Publisher:** Pearson EducationFull text available [Request Online Book](#)**Bibliometrics** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

From the Book:

Introduction:

Network File System (NFS) has been the industry standard protocol for remote file access on the UNIX operating system platform for many years. It is part of the Open Network Computing software family originally developed

4 [Ceph: reliable, scalable, and high-performance distributed storage](#)

Singer, A.; Wal, / Sanku, A.; Boman

January 2007 **Ceph: reliable, scalable, and high-performance distributed storage****Publisher:** University of California at Santa Cruz**Bibliometrics** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

As the size and performance requirements of storage systems have increased, file system designers have looked to new architectures to facilitate system scalability. The emerging object-based storage paradigm diverges from server-based (e.g., ...)

5 [File System Benchmarks, Then, Now, and Tomorrow](#)

Thomas, M.; Ravi

April 2001 **MSS '01: Proceedings of the Eighteenth IEEE Symposium on Mass Storage Systems and Technologies****Publisher:** IEEE Computer SocietyFull text available [Publisher Site](#)

Bibliometrics Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

With the growing popularity of storage area networks (SANs) and clustered, shared file systems, the file system becoming a distinct and critical part of a system environment. Because the file system mitigates access to data a mass storage subsystem,

6 [Exterminator: Automatically correcting memory errors with high probability](#)

[Gena Novak](#), [Emery D. Berger](#), [Benjamin C. Zorn](#)

December 2008

Communications of the ACM . Volume 51 Issue 12

Publisher: ACM [Request Permissions](#)

Full text available [HTML](#) (869 00 bytes), [PDF](#) (840.78 KB)

Bibliometrics Downloads (6 Weeks) 26, Downloads (12 Months) 102, Downloads (Overall) 493, Citation Count

Programs written in C and C++ are susceptible to memory errors, including buffer overflows and dangling pointers. These errors, which can lead to crashes, erroneous execution, and security vulnerabilities, are notoriously costly to repair. Tracking down

7 [Workload-based generation of administrator hints for optimizing database storage utilization](#)

[Kazuo Ohta](#), [Ryu Yamaguchi](#), [Satoshi Kudo](#)

February 2008

Transactions on Storage (TOS) . Volume 3 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (346 97 KB)

Bibliometrics Downloads (6 Weeks) 7, Downloads (12 Months) 65, Downloads (Overall) 508, Citation Count 0

Database storage management at data centers is a manual, time-consuming, and error-prone task. Such management involves regular movement of database objects across storage nodes in an attempt to balance the I/O bandwidth utilization across disk drives.

8 [An approach to virtual allocation in storage systems](#)

[Sukwoo Kang](#), [A. L. Narasimha Reddy](#)

November 2006

Transactions on Storage (TOS) . Volume 2 Issue 4

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (960.24 KB)

Bibliometrics Downloads (6 Weeks) 9, Downloads (12 Months) 83, Downloads (Overall) 949, Citation Count 0

This article presents *virtual allocation*, a scheme for flexible storage allocation. Virtual allocation separates storage allocation from the file system. It employs an allocate-on-write strategy which lets applications fit into the actual usage.

Keywords Storage systems, file systems, storage allocation, storage management

9 [Online reorganization of databases](#)

[Gary H. Sobush](#), [Balakrishna R. Iyer](#)

July 2009

Computing Surveys (CSUR) . Volume 41 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (886 15 KB)

Bibliometrics Downloads (6 Weeks) 98, Downloads (12 Months) 1001, Downloads (Overall) 2721, Citation Count

In practice, any database management system sometimes needs reorganization, that is, a change in some aspect of the logical and/or physical arrangement of a database. In traditional practice, many types of reorganization have required denying access.

Keywords Clustering, concurrent reorganization, indexes, log-structured file systems, maintenance, online reorganization, redefinition, reorganization, restructuring, schema evolution, very large databases

10 [An end-to-end approach to globally scalable network storage](#)

[Abraham Park](#), [Terry Moore](#), [James S. Banks](#)

August 2002

SIGCOMM '02: Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM [Request Permissions](#)

Full text available [PDF](#) (286 82 KB)

Bibliometrics Downloads (6 Weeks) 0, Downloads (12 Months) 58, Downloads (Overall) 1229, Citation Count 2

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try ...

Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backbone protocol, logic networking, network storage, scalability, store and forward network, wide area storage

Also published in:

October 2002 **SIGCOMM Computer Communication Review** Volume 32 Issue 4

11 [Storage area networking – an introduction and future development trends](#)

[D. V. Anil, S. Nigam](#)

October 2002

BT Technology Journal , Volume 20 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [PDF Publisher Site](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

This paper presents a detailed overview of the current and future networking options within the storage arena. Particular emphasis is placed on exploring strategic storage solutions, which are based on metropolitan area network (MAN) deployments, with ...

12 [Proceedings of the Second International Workshop on Persistence and Java](#)

[Malcolm Atkinson, Mick Jordan](#)

December 1997

Proceedings of the Second International Workshop on Persistence and Java

Publisher: Sun Microsystems, Inc.

Full text available: [PDF](#) (1.23 MB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 244, Citation Count: 2

These proceedings record the Second International Workshop on Persistence and Java, that was held in Half Mc Bay in the San Francisco Bay Area, in August 1997. The focus of the workshop series is the relationship between the Java platform and longterm ...

13 [A practical learning-based approach for dynamic storage bandwidth allocation](#)

[Vijay Sundaram, Prabhat Shenoy](#)

June 2003

INFOQ'03: Proceedings of the 11th international conference on Quality of service

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

In this paper, we address the problem of dynamic allocation of storage bandwidth to application classes so as to meet their response time requirements. We present an approach based on reinforcement learning to address the problem. We argue that a simple ...

14 [The Conquest file system: Better performance through a disk/persistent-RAM hybrid design](#)

[An-Li Andy Wang, Geoff Kuenning, Peter Reiher, Garais Popov](#)

August 2006

Transactions on Storage (TOS) , Volume 2 Issue 3

Publisher: ACM [Research Permission](#)

Full text available: [PDF](#) (1.34 MB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 90, Downloads (Overall): 1035, Citation Count:

Modern file systems assume the use of disk, a system-wide performance bottleneck for over a decade. Current disk caching and RAM file systems either impose high overhead to access memory content or fail to provide mechanisms to achieve data persistence ...

Keywords: Persistent RAM, file systems, performance measurement, storage management

15 [Virtual machine file system](#)

[Satyaki B. Vaidyan](#)

December 2010

SI GOPS Operating Systems Review , Volume 44 Issue 4

Publisher: ACM

Full text available: [PDF](#) (810.32 KB)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 219, Downloads (Overall): 219, Citation Count:

The Virtual Machine File System (VMFS) is a scalable and high performance symmetric clustered file system for hosting virtual machines (VMs) on shared block storage. It implements a clustered locking protocol exclusively using storage links, and does ...

Keywords: SAN, clustered file system, scalability, storage hardware acceleration, storage virtualization, virtual machine

16 [GMBlock: Optimizing data movement in a block-level storage sharing system over Myrinet](#)

[Parag Mehta](#), [Anand Arora](#), [Nandini](#), [Nandini](#)

December 2010 **Cluster Computing**, Volume 13 Issue 4

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

We present gmblock, a block-level storage sharing system over Myrinet which uses an optimized I/O path to transfer data directly between the storage medium and the network, bypassing the host CPU and main memory bus of the storage server. It is device

Keywords: Block-level storage, Memory contention, Myrinet, Network block device, OCFS2, SMP clusters, Shared storage, User level networking

17 [Data center evolution](#)

[Kriszta Kent](#)

December 2009 **Computer Networks: The International Journal of Computer and Telecommunications Networking**, Volume 53 Issue 17

Publisher: Elsevier North-Holland, Inc.

Bibliometrics: Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

Data centers form a key part of the infrastructure upon which a variety of information technology services are built. As data centers continue to grow in size and complexity, it is desirable to understand aspects of their design that are worthy of carrying

Keywords: Data center, Ethernet, InfiniBand, Power management, Solid state storage, Virtualization

18 [DHIS: discriminating hierarchical storage](#)

[Chaitanya Yalamanchili](#), [Kiron Vijayashankar](#), [Erez Zadok](#), [Gopalan Sivathanu](#)

May 2009

SYSTOR '09: Proceedings of SYSTOR 2009: The Israeli Experimental Systems Conference

Publisher: ACM

Full text available [PDF](#) (208.96 KB)

Bibliometrics: Downloads (6 Weeks) 2, Downloads (12 Months) 21, Downloads (Overall) 82, Citation Count 0

A typical storage hierarchy comprises of components with varying performance and cost characteristics, providing multiple options for data placement. We propose and evaluate a hierarchical storage system, DHIS, that uses application-level hints to discriminate ...

Keywords: file systems, intelligent disks, storage stack, storage systems

19 [An evaluation of multi-resolution storage for sensor networks](#)

[Deepak Ganesan](#), [Ben Greenstein](#), [Dmitry Perekhodsky](#), [Deborah Estrin](#), [John Heidemann](#)

November 2003 **SenSys '03:** Proceedings of the 1st international conference on Embedded networked sensor systems

Publisher: ACM

Full text available [PDF](#) (299.34 KB)

Bibliometrics: Downloads (6 Weeks) 11, Downloads (12 Months) 54, Downloads (Overall) 1508, Citation Count

Wireless sensor networks enable dense sensing of the environment, offering unprecedented opportunities for observing the physical world. Centralized data collection and analysis adversely impact sensor node lifetime. Previous sensor network research ...

20 [Custom memory allocation for tree](#)

[Ali Al-Jayy](#), [Lawrence Rauchwerger](#)

November 2006 **LCPC'06:** Proceedings of the 19th international conference on Languages and compilers for parallel computing

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks) n/a, Downloads (12 Months) n/a, Downloads (Overall) n/a, Citation Count

We present a novel and efficient container-centric memory allocator, named Defero, which allows a container to guide the allocation of its elements. The guidance is supported by the semantic-rich context of containers in which a new element is inserted

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